

ABSTRACT

A device is described for applying a fluid medium to a substrate, having a capillary tube or a needle having one end, a first means using which the exit of the fluid medium from the end of the capillary tube or the adherence of the fluid medium to the end of the needle, in particular in the form of a droplet is detectable, and having further means using which the distance of the end of the capillary tube or the needle to the substrate can be changed. Furthermore, an image recording device and an image processing device associated therewith are provided, using which the point in time of the transfer of a droplet, located at the end of the capillary tube or the needle, from the capillary tube or the needle to the substrate is detectable when the distance of the end of the capillary tube or the needle to the substrate diminishes. Furthermore, a method which may be carried out in particular using this device for applying a fluid medium to a substrate is described, the point in time of the transfer of the fluid medium, exiting from the end of the capillary tube or adhering to the end of the needle, from the capillary tube to the substrate is detected by image processing without contact.